

1-42. (CANCELED)

43. (NEW) A shifting apparatus for a multistage transmission, in particular for a motor vehicle, whereby in the transmission at least two, non-successively following ratio stages are assigned to one shifting packet, a gear shift lever for activating the shifting packet is provided, and a shifting pattern is made available to the said gear shift lever, a shifting position of each two successively following gears lie opposite to one another and in that the gears which can be selected within pattern paths are assigned to different shifting packets.

44. (NEW) The shifting apparatus according to claim 43, wherein between the gear shift lever (4) and the at least one shifting packet (2) a conversion apparatus (8) is provided, which converts a motion of the gearshift lever (4) into a motion of a shifting-means, which achieves one of a stage(3) corresponding to the shifted gear.

45. (NEW) The shifting apparatus according to claim 43, wherein the conversion apparatus (8) is designed as one of a direct or an indirect connection between the gear shift lever (4) and the at least one shifting packet (2).

46. (NEW) The shifting apparatus according to claim 43, wherein the conversion apparatus (8) is designed as a one or more of mechanical, hydraulic or pneumatic connection.

47. (NEW) The shifting apparatus according to claim 43, wherein the conversion apparatus (8) is designed as one or more of shifting rods or as cable/metal rope.

48. (NEW) The shifting apparatus according to claim 43, wherein a shifting pattern (6) is assigned to the gear shift lever (4), which is designed with an H or multiple H patterns, wherein, in shifting positions, neighboring ratio stages essentially lie opposite to one another.

49. (NEW) The shifting apparatus according to claim 43, wherein within one shifting path (5) successively following ratio stages of the transmission (1) can be shifted by the gear shift lever (4), whereby at least one of ratio stage (3) can be shifted to by means of the shifting packet (2), to which two non-successively following stages (3) are assigned.

50. (NEW) The shifting apparatus according to claim 43, wherein each shifting path (5) has been assigned at least two shifting packets (2).

51. (NEW) The shifting apparatus according to claim 43, wherein upon the sliding movement of the gear shift lever (4) in at least one selective path (7) of the shifting pattern (6) at least two shifting packets (2) can be simultaneously bound together with the gear shift lever (4) by the shifting-means (9).

52. (NEW) The shifting apparatus according to claim 43, wherein conversion apparatus contains an inversion apparatus, by means of which, a shifting movement in a shifting path of the gear shift lever produces a movement in a same sense in a shifting-means.

53. (NEW) The shifting apparatus according to claim 43, wherein the gear shift lever (4) is connected with a shifting finger shaft (11) and the shaft is made axially slidable and radially pivotal by means of the gear shift lever (4).

54. (NEW) The shifting apparatus according to claim 52, wherein to a shifting finger shaft (11) at least one additional shifting finger shaft (12) is coupled.

55. (NEW) The shifting apparatus according to claim 54, wherein the coupling of the shift finger shafts (11, 12) is accomplished by means of gears which are affixed to the shift finger shafts.

56. (NEW) The shifting apparatus according to claim 54, wherein placement of the shifting finger shafts (11, 12) is done in one or more planes.

57. (NEW) The shifting apparatus according to claim 52, wherein shifting finger shafts (11, 12) are so coupled together, that one selective positioning of the gear shift lever (4) slidably pushes one or more of all shifting finger shafts (11, 12) in parallel and a shifting motion of the said gear shift lever (4) turns neighboring shifting finger shafts (11, 12) in counter rotation (inverse) to one another.

58. (NEW) The shifting apparatus according to claim 43, wherein shifting finger shafts (11, 12) are assigned to at least one shifting finger (13).

59. (NEW) The shifting apparatus according to claim 58, wherein in at least one shifting path (5), at least two shifting fingers (13) of different shifting finger shafts (11, 12) engage in different shifting rods (10).

60. (NEW) The shifting apparatus according to claim 58, wherein in at least one shifting path (5) at least two shifting fingers (13) of the same shifting finger shaft (11, 12) engage in different shifting rods (10).

61. (NEW) The shifting apparatus according to claim 43, wherein upon turning of a shifting finger shaft (11) in one rotational direction, at least one shifting finger (13)

of the shifting finger shaft (11, 12) is brought out of engagement with a one shifting rod (10), and at least another shifting finger (13) of the other shifting finger shaft (12, 11) slidably displaces the other shifting rod (10).

62. (NEW) The shifting apparatus according to claim 61, wherein upon turning of the shifting finger shaft (11) in the reverse/inverse rotational direction, the at least one shifting finger (13) of the other shifting finger shaft (12,11) is brought out of engagement with the other shifting rod (10) and the at least one shifting finger (13) of the other shifting finger shaft (11, 12) slidably pushes the one shifting rod (10).

63. (NEW) The shifting apparatus according to claim 43, wherein upon turning of a shifting finger shaft (11) in one rotational direction, at least one shifting finger (13) of the shifting finger shaft (11, 12) is brought out of engagement with a shifting rod (10) and at least one other shifting finger (13) of the shifting finger shaft (11, 12) slidably displaces another shifting rod (10).

64. (NEW) The shifting apparatus according to claim 43, wherein upon a turning of a shifting finger shaft (11) in both rotational directions, at least one shifting finger (13) of one shifting finger shaft (11, 12) slidably pushes a shifting rod (10).

65. (NEW) The shifting apparatus according to claim 43, wherein contours of shifting rods (10) are designed in such a manner, that by means of a shifting finger (13), the shifting rods (10) can be shifted into either a shifting position or into a neutral position.

66. (NEW) The shifting apparatus according to claim 43, wherein a contour of a shifting finger (13) is designed in a manner so that by means of the contour, a torque ratio can be achieved.

67. (NEW) The shifting apparatus according to claim 43, wherein for the transmission of movement of the gear shifting lever (4) on the shifting pattern (9), at least one toothed segment (14) and at least one rack (15) are provided.

68. (NEW) The shifting apparatus according to claim 43, wherein upon sliding displacement of the gear shift lever (4) in a selection path (7) of the shifting pattern (6), at least two shifting packets (2) can accept loading by means of shifting extensions which are bound to the shifting packets.

69. (NEW) The shifting apparatus according to claim 43, wherein an inversion apparatus consists of essentially a shifting finger shaft (311) and a plurality of shifting

rods (310), whereby the shifting finger shaft (311) is placed essentially at right angles to the shifting rods (310).

70. (NEW) The shifting apparatus according to claim 69, wherein the plurality of shifting rods (310) are placed in essentially two planes on oppositely disposed sides of the shifting finger shaft (311).

71. (NEW) The shifting apparatus according to claim 69, wherein on the shifting finger shaft (311), shift fingers (313) are provided which coact with shifting grooves (327) in the shifting rods (310).

72. (NEW) The shifting apparatus according to claim 53, wherein the gear shift lever is rigidly bound to the shifting finger shaft (311).

73. (NEW) The shifting apparatus according to claim 43, wherein a shifting finger (313) is placed on a shift finger shaft (311) in such a manner, that the shifting finger (313), when in a neutral position, does not run perpendicular to shifting rods (310).

74. (NEW) The shifting apparatus according to claim 73, wherein for achieving of a gear by activation of the shifting lever, concerned shifting finger (313) is pivotally placed in a position, which is essentially perpendicular to the shifting rod (310).

75. (NEW) The shifting apparatus according to claim 73, wherein the concerned shifting finger (313) upon pivoting in one direction, activates the shifting rod (310), that is to say, activates the shifting packet and upon the pivoting of the shifting finger (313) in an opposite rotational direction, the shifting finger (313) becomes free and the shifting rod (310) is not activated, whereby the shifting rod (310) is kinematically coupled with the shifting finger (313), until the neutral position is once again reached.

76. (NEW) The shifting apparatus according to claim 43, wherein a shifting finger (313) is provided for engagement and de-engagement of a gear.

77. (NEW) The shifting apparatus according to claim 43, wherein a shifting finger (313) is provided for activation of the shifting packet, that is to say, for the engagement and de-engagement of two gears, which allows, for example, four gears may be shifted by means of two shifting fingers (313).

78. (NEW) The shifting apparatus according to claim 43, wherein a conversion apparatus contains, instead of slidable shifting rods, fixed shifting rods, upon which slidable shifting collars are slidingly affixed.

79. (NEW) The shifting apparatus according to claim 43, wherein the shifting apparatus is designed to be at least one of hand controlled and free from control means.

80. (NEW) A motor vehicle transmission comprising a shifting apparatus, whereby in the transmission at least two, non-successively following ratio stages are assigned to one shifting packet, a gear shift lever for activating the shifting packet is provided, and a shifting pattern is made available to the said gear shift lever, a shifting position of each two successively following gears lie opposite to one another and in that the gears which can be selected within pattern paths are assigned to different shifting packets.

81. (NEW) The motor vehicle transmission according to claim 80, wherein the transmission contains a double clutch gear train with only one startup clutch (22).

82. (NEW) The motor vehicle transmission according to claim 80, wherein the transmission is designed as a heavy duty truck transmission.

83. (NEW) The motor vehicle transmission according to claim 80, wherein the transmission is designed as a group-transmission.

84. (NEW) The motor vehicle transmission according to claim 80, wherein the transmission is to be manually shifted.